

CLAIMS

1. A toner supply container detachably mountable to an image forming apparatus, said toner supply container comprising:

5 a rotatable container body for containing toner; and

a sensor, rotatable integrally with said container body, for detecting a remaining toner amount in said container body;

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2. A toner supply container according to Claim 1, further comprising sending means for sending information detected by said sensor to said image forming apparatus.

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3. A toner supply container according to Claim 2, wherein said sending means sends the information to said image forming apparatus wirelessly.

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4. A toner supply container according to Claim 2, wherein said sensor and said sending means are provided integrally on a common substrate.

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5. A toner supply container according to Claim 1, further comprising a feeding member for feeding the toner from said container body with rotation of said container body.

6. A toner supply container according to Claim 1,
wherein said sensor is provided on a peripheral
surface of said container body.

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7. A toner supply container according to Claim 1,
wherein a plurality of such said sensors are provided
on a peripheral surface of said container body at
positions which are different with respect to a
10 direction of a rotational axis of said container body.

8. A toner supply container according to Claim 1,
further comprising an energy receiving portion for
receiving driving energy for said sensor from said
15 image forming apparatus.

9. A toner supply container according to Claim 8,
wherein said energy receiving portion includes an
electrical contact portion for receiving electric
20 energy from said image forming apparatus.

10. A toner supply container according to Claim 1,
further comprising an accumulator for driving said
sensor.

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11. A toner supply container according to Claim 1,
wherein said sensor is a pressure sensor.

12. A toner supply container detachably mountable to an image forming apparatus, said toner supply container comprising:

5 a container body for containing toner;
detecting means for detecting a remaining toner amount in said container; and.
sending means for sending wirelessly information detected by said detecting means to said
10 image forming apparatus.

13. A toner supply container according to Claim 12, wherein said detecting means and said sending means are provided integrally on a common substrate.

15 14. A toner supply container according to Claim 12, further comprising an energy receiving portion for receiving driving energy for said detecting means and said sending means from said image forming apparatus.

20 15. A toner supply container according to Claim 12, further comprising an accumulator for driving said detecting means.

25 16. A toner supply container according to Claim 12, wherein said detecting means includes a plurality of sensors arranged in a circumferential direction of

said container body.

17. A toner supply container according to Claim 12,
wherein said detecting means includes a pressure
5 sensor.

18. An image forming apparatus to which a toner
supply container is detachably mountable, said toner
supply container including a rotatable container body
10 for containing toner, said apparatus comprising:

driving means for applying a rotational driving
force to said container, wherein said toner supply
container further includes a feeding member for
feeding the toner in said toner supply container, and
15 a sensor, rotatable integrally with said container
body, for detecting a remaining toner amount in said
container body; and

notification means for notifying a remaining
toner amount detected by said sensor with rotation of
20 said container body.

19. An image forming apparatus to which a toner
supply container is detachably mountable, wherein said
toner supply container includes a container body for
25 containing toner, detecting means for detecting a
remaining toner amount of the toner in said container
body, sending means for sending wirelessly information

detected by said detecting means, said apparatus comprising:

receiving means for receiving the information wirelessly sent from said sending means; and

5 notification means for notifying the remaining toner amount in the toner supply container on the basis of the information received by said receiving means.

10 20. An apparatus according to Claim 19, wherein said notification means includes a display portion for displaying the remaining toner amount in said toner supply container.

15 21. An apparatus according to Claim 20, wherein said receiving means wirelessly receives the information sent from said sending means.

22. An apparatus according to Claim 19, further
20 comprising energy applying means for applying energy for driving said detecting means.

23. A toner supply container detachably mountable to an image forming apparatus which includes an optical element for detecting a remaining toner amount, and a supporting member for rotatably supporting said optical element, said toner supply container

comprising:

a rotatable container body for containing toner;

an optical window for detecting the remaining toner amount in said container; and

an engaging portion engageable with said supporting member to permit rotation of said optical window while substantially maintaining a positional relation relative to said optical element.

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24. A toner supply container according to Claim 23, wherein said optical window has a prism.